

## Product datasheet for **RC212076**

### **GNG4 (NM\_001098721) Human Tagged ORF Clone**

#### Product data:

Product Type: Expression Plasmids  
Product Name: GNG4 (NM\_001098721) Human Tagged ORF Clone  
Tag: Myc-DDK  
Symbol: GNG4  
Mammalian Cell Selection: Neomycin  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
ORF Nucleotide Sequence: >RC212076 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAAGAGGGCATGTCTAATAACAGCACCCTAGCATCTCCCAAGCCAGGAAAGCTGTGGAGCAGCTAA  
AGATGGAAGCCTGTATGGACAGGGTCAAGGTCTCCAGGCAGCTGCGGACCTCCTGGCCTACTGTGAAGC  
TCACGTGCGGGAAGATCCTCTCATTCAGTGCCTGCATCAGAAAACCCCTTTCGCGAGAAGAAGTTC  
TTTTGTACCATTCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212076 protein sequence  
Red=Cloning site Green=Tags(s)  
MKEGMSNNSTTSISQARKAVEQLKMEACMDRVKVSQAAADLLAYCEAHVREDPLIIPVPAENPFREKKF  
FCTIL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Chromatograms: [https://cdn.origene.com/chromatograms/mk6026\\_c06.zip](https://cdn.origene.com/chromatograms/mk6026_c06.zip)

Restriction Sites: SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001098721

**ORF Size:** 225 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

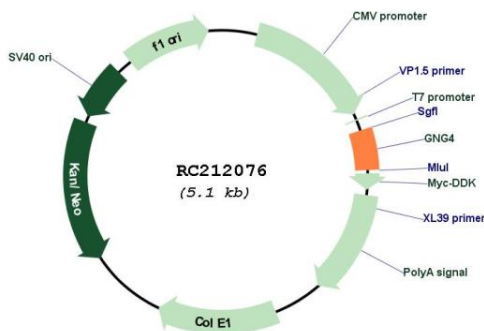
**RefSeq:** [NM\\_001098721.1](#), [NP\\_001092191.1](#)

**RefSeq Size:** 4997 bp

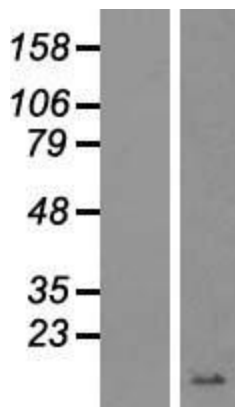
**RefSeq ORF:** 228 bp

**Locus ID:** 2786  
**UniProt ID:** [P50150](#)  
**Cytogenetics:** 1q42.3  
**Protein Families:** Druggable Genome  
**Protein Pathways:** Chemokine signaling pathway  
**MW:** 8.4 kDa  
**Gene Summary:** Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RC212076



Western blot validation of overexpression lysate (Cat# [LY420668]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC212076] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).